

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001763

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K 38/45, A61P 35/00, A61P 35/04, A61K 38/16, A61K 38/17, A61K 47/48, A61K 47/42

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC 7 A61K 38/45, A61P 35/00, A61P 35/04, A61K 38/16, A61K 38/17, A61K 47/48, A61K 47/42

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

EPO-Internal, Delphion, Canadian Patent Database, Medline

Keywords: C3, transferase, ADP-ribosylation, Rho, GTPase, Clostridium, proliferation, cancer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CA2342970 Mc KERRACHER, L 2002/10/12 whole document	1-85
Y	EP1177796 MITSUBISHI PHARMA CORPORATION 2002/02/06 whole document, see in particular Claim 1.	1-85
Y	VERSCHUREN, H et al. "ADP-ribosylation of Rho-proteins with botulinum C3 exoenzyme inhibits invasion and shape changes of T-lymphoma cells." European Journal of Cell Biology (1997) Vol.73, pp.182-187. whole document	1-85
Y	IMAMURA, F et al., "Involvement of small GTPases Rho and Rac in the invasion of rat ascites hepatoma cells." Jpn J. Cancer Res. (2000) Vol.91, pp.811-816. whole document	1-85
Y	YOSHIOKA, K et al., "Participation of rhop21 in serum-dependent invasion by rat ascites hepatoma cells." FEBS Letters (1995) Vol.372, pp.25-28. whole document	1-85
Y	US2002/0077283 A1 SESSA, WC 2002/06/20 whole document	1-85

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international-type search

10 December 2004

Date of mailing of the international-type search report

22 February 2005 (22-02-2005)

Name and mailing address of the ISA/CA

Commissioner of Patents
Canadian Patent Office - PCT
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PCT/CA2004/001763

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	VAN AELST, L and C D'SOUZA-SCHOREY "Rho GTPases and signalling networks." Genes & Development (1997) Vol.11, pp2295-2322. Whole document	1-85
A	WILDE, C et al. "Recognition of RhoA by <i>Clostridium botulinum</i> C3 Exoenzyme." Journal of Biological Chemistry (2000) Vol.275, No.22, pp.16478-16483. Whole document	1-85
A	AKTORIES, K and I JUST "Monoglucosylation of low-molecular-mass GTP-binding Rho proteins by clostridial cytotoxins." Trends in Cell Biology (1995) Vol.5, pp.441-443. Whole document	1-85

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claims Nos. :
because they relate to subject matter not required to be searched by this Authority; namely:

Remark: Although claims 1-57 are directed to a method for treatment of the human or animal body, which the Authority is not obliged to search under Rule 39.1(iv) of the PCT, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. ☐ Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001763

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2342970	12-10-2002	CA2342970 A1	12-10-2002
		CA2362004 A1	12-10-2002
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		EP1377319 A2	07-01-2004
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		US2003165510 A1	04-09-2003
		WO0220768 A2	14-03-2002